## What is claimed is:

## [Claim 1] 1. A thermal printer comprising:

- a capstan roller;
- a pinch roller for pressing a print medium to the capstan roller;
- bushing installed around the pinch roller, wherein the outer radius of the bushing is greater than the radius of the pinch roller so that there is a gap between the capstan roller and the pinch roller; and
- a pinch roller driving device for pressing the pinch roller onto the print medium or separating the pinch roller from the print medium.
- [Claim 2] 2. The thermal printer of claim 1 wherein a plurality of prickers is positioned on the surface of the capstan roller for pricking the print medium.
- [Claim 3] 3. The thermal printer of claim 1 wherein the bushing is sheathed on the pinch roller.
- [Claim 4] 4. The thermal printer of claim 1 wherein the inner edges of the bushing are positioned outside the outer edges of the print medium.
- [Claim 5] 5. The thermal printer of claim 1 wherein the pinch roller driving device comprises:
- a lever connected to the pinch roller for driving the pinch roller;

- a spring connected to the lever for providing an elastic force to the lever;
- a cam; and
- a drag link connected to the lever and the cam for transferring a travel of the cam to a travel of the lever.

## [Claim 6]

- 6. A thermal printer comprising:
- a capstan roller;
- a pinch roller for pressing a print medium to the capstan roller;

bushing installed around the capstan roller, wherein the outer radius of the bushing is greater than the radius of the capstan roller so that there is a gap between the capstan roller and the pinch roller; and

a pinch roller driving device for pressing the pinch roller onto the print medium or separating the pinch roller from the print medium.

- [Claim 7] 7. The thermal printer of claim 6 wherein a plurality of prickers is positioned on the surface of the capstan roller for pricking the print medium.
- [Claim 8] 8. The thermal printer of claim 6 wherein the bushing is sheathed on the capstan roller.
- [Claim 9] 9. The thermal printer of claim 6 wherein the inner edges of the bushing are positioned outside the outer edges of the print medium.

## [Claim 10] 10. The thermal printer of claim 6 wherein the pinch roller driving device comprises:

- a lever connected to the pinch roller for driving the pinch roller;
- a spring connected to the lever for providing an elastic force to the lever;
- a cam; and
- a drag link connected to the lever and the cam for transferring a travel of the cam to a travel of the lever.